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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/655,331	09/04/2003	Dennis O. Falaas	48748US019	6100		
32692	7590 01/25/20	06	EXAM	EXAMINER		
3M INNO	VATIVE PROPERT	BISSETT, M	BISSETT, MELANIE D			
PO BOX 33 ST. PAUL.	427 MN 55133-3427	ART UNIT	PAPER NUMBER			
011111000,		1711				
			DATE MAILED: 01/25/2006			

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application	No.	Applicant(s)			
		10/655,331		FALAAS ET AL.			
		Examiner		Art Unit			
		Melanie D. E		1711			
The MAILING DATE of this Period for Reply	communication app	ears on the c	over sheet with the c	orrespondence add	dress		
A SHORTENED STATUTORY PE WHICHEVER IS LONGER, FROIT - Extensions of time may be available under the after SIX (6) MONTHS from the mailing date - If NO period for reply is specified above, the - Failure to reply within the set or extended per Any reply received by the Office later than the earned patent term adjustment. See 37 CFR	M THE MAILING DA e provisions of 37 CFR 1.13 of this communication. maximum statutory period w iod for reply will, by statute, see months after the mailing	ATE OF THIS 36(a). In no event, will apply and will e , cause the applica	COMMUNICATION however, may a reply be tim xpire SIX (6) MONTHS from tion to become ABANDONEI	lely filed the mailing date of this co D (35 U.S.C. § 133).			
Status							
 1)⊠ Responsive to communicat 2a)□ This action is FINAL. 3)□ Since this application is in colosed in accordance with the 	2b)⊠ This condition for allowar	action is nor	n-final. r formal matters, pro		merits is		
Disposition of Claims							
4)	is/are withdraved. is/are rejected. ted to. to restriction and/or	wn from cons	ideration.				
9) The specification is objected 10) The drawing(s) filed on Applicant may not request that Replacement drawing sheet(s) 11) The oath or declaration is of	is/are: a) acce any objection to the c including the correcti	epted or b) drawing(s) be ion is required	held in abeyance. See if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CF	` '		
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing 3) Information Disclosure Statement(s) (PT Paper No(s)/Mail Date			Interview Summary (Paper No(s)/Mail Da Notice of Informal Pa	te	-152)		

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1. The prior art rejections have been altered to reflect the amended claims, and the double patenting rejections have been withdrawn based on the terminal disclaimer.

Terminal Disclaimer

2. The terminal disclaimer filed on 14 October 2005 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of U.S. Patent Nos. 6,071,621 and 6,641,921 has been reviewed and is accepted. The terminal disclaimer has been recorded.

Claim Rejections - 35 USC § 102

- 3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 4. Claims 17-18, 21, 23-24, 35-37, and 39 are rejected under 35 U.S.C. 102(b) as being anticipated by Nippon Carbide. The examiner refers to the English language equivalent of Nippon Carbide, Ochi et al.
- 5. From a prior Office action:

The reference teaches a laminated film resin comprising a PVC resin film, a polyurethane resin layer, and a metal layer adhering to the polyurethane layer (abstract). In this case, PVC serves as a clear coat protective layer (col. 9 lines 13-21). The metal layer is visible through the PVC and polyurethane layers (col. 2 lines 61-68). Metals for the metal layer include aluminum, gold, silver, nickel, and chromium (col. 14 lines 51-54). The polyurethane layer includes a crosslinking agent (col. 11 line 56-col. 12 line 5) and may also include colorants (col. 13 lines 3-6). Figures 1 and 2 show adhesive backings on the metal layer and release backings on the adhesive layer. Also, surface coatings are noted (col. 9 lines 22-24).

Additionally, the reference suggests blending the PVC material with urethane resins to form a clear protective layer (col. 4 lines 54-61). Also, the reference teaches printing and providing

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designs on the PVC layer using ink, thus suggesting printed messages, decorative patterns, and color layers on an outer surface of the polyurethane layer (col. 18 lines 1-9).

Regarding the limitations to the substrate derived from an aqueous dispersion and the polyurethane clear coat layer, if any, derived from a solvent-based layer, it is noted that these limitations follow product-by-process format. Since the solvent or aqueous medium would not be present in the final article, which is claimed, it is the examiner's position that polyurethane layers formed by aqueous dispersions would be indistinguishable from those formed from solution.

Claim Rejections - 35 USC § 103

- 6. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 7. Claims 19-20 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nippon Carbide in view of Dunning et al.
- 8. From a prior Office action:

Nippon Carbide applies as above, teaching several metals for the metal layers but failing to mention the use of indium or tin materials or the use of primers. Dunning applies as above, where indium and tin materials are noted as equivalents to other metals, including nickel, silver, chromium, and aluminum (col. 2 lines 1-13). The metals are highly reflective and capable of being vacuum deposited. Thus, it is the examiner's position that it would have been prima facie obvious to use indium, tin, or alloys thereof in Nippon Carbide's invention with the expectancy of forming equally reflective and processible metal layers.

Also, Dunning teaches that primer layers can be used on the metal layer to improve adhesion between the laminate and the substrate to be bonded (col. 6 lines 14-35). Thus, it is the examiner's position that it would have been prima facie obvious to use a primer layer in the laminates of Nippon Carbide to improve adhesion to bonding substrates.

- 9. Claims 27-28, 30-31, and 38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dunning et al. in view of Kunevicius.
- 10. From a prior Office action:

Dunning teaches laminate structures comprising an adhesive layer, a visually continuous reflective metal layer, a polyurethane elastomeric film layer, and a release coated carrier layer

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(abstract, figure 1). The reference discusses reinforcing the opacity of the metal layer, indicating that the metal layer already contains a degree of opacity (col. 2 lines 46-48). Metals for the metal layer include chromium, nickel, stainless steel, aluminum, tin, indium, silver, and alloys thereof (col. 2 lines 1-13). The elastomeric film is preferably transparent to allow the metal layer to show through (col. 4 lines 32-59).

Dunning applies as above, noting the application of PSA materials to the metal layer but failing to mention the use of an adhesive foam tape. Kunevicius teaches that foam tapes are used to apply molding materials to automobile body, where the foam serves to improve vibration absorption to prevent delamination (col. 4 lines 18-51). It is the examiner's position that it would have been prima facie obvious to use foam tapes as the adhesive in Dunning's invention to improve vibration absorption and prevent delamination.

Regarding the limitation to the substrate derived from an aqueous dispersion, it is noted that this limitation follows product-by-process format. Since the aqueous medium would not be present in the final article, which is claimed, it is the examiner's position that polyurethane layers formed by aqueous dispersions would be indistinguishable from those formed from the reference.

- 11. Claims 27-28, 30-34, and 38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nippon Carbide in view of Kunevicius.
- 12. From a prior Office action:

Nippon Carbide applies as above, noting the application of PSA materials to the metal layer but failing to mention the use of an adhesive foam tape. Kunevicius teaches that foam tapes are used to apply molding materials to automobile body, where the foam serves to improve vibration absorption to prevent delamination (col. 4 lines 18-51). It is the examiner's position that it would have been prima facie obvious to use foam tapes as the adhesive in Nippon Carbide's invention to improve vibration absorption and prevent delamination.

Response to Arguments

13. In response to the applicant's arguments that the claims are not anticipated, the examiner has explained that the dispersion limitations are interpreted as product-by-process limitations. It is the examiner's position that the resulting polyurethane layer would be the same regardless of the coating process. The declaration attempts to show

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the difference in polyurethane layers formed from different methods. However, the polyurethanes used in the examples appear to be different. One of skill in the art would expect different polyurethanes to have different properties. The applicant has not shown that the dispersion method itslef serves to provide a different product.

- 14. Regarding the arguments concerning the 103 rejections, the examiner has provided motivation from the prior art that the substitution of metals would provide equally reflective and processible layers. One of skill in the art would recognize the equivalence of the layers and so would not need to experiment to realize the benefits of the metal layer substitution.
- 15. In response to the applicant's arguments that Kunevicius does not teach the claimed pressure sensitive adhesive foam tape, it is the examiner's position that the reference's teaching of a cellular cushion having a pressure-sensitive adhesive layer thereon constitutes a pressure sensitive adhesive foam tape. The reference teaches foam tape strips used to adhere a molding to an auto body part (col. 5 lines 31-41). An article containing a body, a foam layer, and an adhesive is encompassed by the term "adhesive foam tape".

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melanie D. Bissett whose telephone number is (571) 272-1068. The examiner can normally be reached on M-F 8-4:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck can be reached on (571) 272-1078. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Melanie D. Bissett Primary Examiner Art Unit 1711

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